

NOTES

1) ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL INSURE THE LEAST PRACTICABLE OBSTRUCTION TO TRAFFIC CONSISTENT WITH SAFETY STANDARDS AND SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL TITLED "DELAWARE TRAFFIC CONTROLS FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY AND EMERGENCY OPERATIONS." HERE AFTER REFERRED TO AS THE TRAFFIC CONTROL MANUAL.

2) MAINTENANCE OF TRAFFIC DURING LANE CLOSURES ON TWO-LANE ROADWAYS FOR PAVING OPERATIONS, PERMANENT PAVEMENT MARKINGS, PATCHING, OR FOR OTHER OPERATIONS AS DIRECTED BY THE ENGINEER SHALL CONFORM TO CASE 4 OR CASE 12 OF THE TRAFFIC CONTROL MANUAL. FOR UTILITIES INSTALLED USING AN OPEN TRENCH, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH CASE 3 OF THE TRAFFIC CONTROL MANUAL.

3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH OTHER CONTRACTORS IN THE AREA.

4) ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION, SHALL COMPLY WITH THE TRAFFIC CONTROL MANUAL, SHALL BE NCHRP - 350 APPROVED, AND SHALL BE APPROVED BY THE DELDOT SAFETY SECTION AND THE ENGINEER PRIOR TO INSTALLATION. TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN GOOD CONDITION FOR DURATION OF USE.

5) ALL TEMPORARY AND/OR PERMANENT WARNING SIGNS WILL BE COVERED WITH RETROREFLECTIVE FLUORESCENT SHEETING, ELIMINATING THE NEED FOR TYPE "B" WARNING LIGHTS ON THESE SIGNS. ALL OF THESE SIGNS SHALL BE MOUNTED ON BREAKAWAY POSTS SUCH THAT THE BOTTOM OF THE SIGN IS 7' ABOVE THE GROUND UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

6) REMOVAL OF EXISTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER SHALL BE PAID UNDER ITEM 748530 - REMOVAL OF PAVEMENT STRIPING. ALL MARKINGS THAT ARE NO LONGER IN USE AND CONFLICT WITH THE PAVEMENT MARKINGS IN USE BY THE TRAVELING PUBLIC ARE TO BE REMOVED AND MUST BE COMPLETELY OBLITERATED BY A METHOD APPROVED BY THE ENGINEER. PAINTING OVER THE CONFLICTING STRIPING WILL NOT BE ACCEPTED AS A METHOD OF REMOVAL. MAINTENANCE OF TRAFFIC DURING INSTALLATION OF THE TEMPORARY PAVEMENT MARKINGS SHALL CONFORM TO CASE 8A OF THE TRAFFIC CONTROL MANUAL.

7) ALL TYPE III BARRICADES AT POINTS OF ROAD CLOSURE SHALL HAVE TWO (2) RED TYPE 'B' FLASHING LIGHTS OVER EACH TRAVEL LANE. ANY SIGN/BARRICADE ARRANGEMENT SHALL BE CRASH WORTHY AS PER NCHRP REPORT 350.

8) THE FIRST TWO DRUMS IN A LINE OF DRUMS USED TO CHANNELIZE OR DIVERT TRAFFIC SHALL EACH BE EQUIPPED WITH ONE (1) AMBER TYPE 'B' FLASHING LIGHT AND THE LAST DRUM SHALL HAVE ONE TYPE 'A' LIGHT. EACH SUBSEQUENT DRUM IN THAT LINE SHALL NOT BE EQUIPPED WITH LIGHTS. DRUM SPACING SHALL BE PER THE TRAFFIC CONTROL MANUAL EXCEPT ON TAPERS WHERE SPACING SHALL EQUAL 25 FEET, OR AS SHOWN ON THE TRAFFIC CONTROL PLAN. PLASTIC DRUMS SHALL BE PLACED AT A MINIMUM OF 12 INCHES FROM THE EDGELINE OF TRAVEL LANE, UNLESS OTHERWISE INDICATED ON THE PLANS.

9) ROADWAY EXCAVATION ADJACENT TO TRAVEL LANES SHALL NOT BE MORE THAN THE CONTRACTOR CAN BACKFILL WITH BASE COURSE OR PERMANENT ROADWAY MATERIAL TO WITHIN 2" OF THE ADJACENT ROADWAY GRADE WITHIN THE SAME WORKING DAY. FOR GRADE DIFFERENTIALS OF BETWEEN 2" AND 6" THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE TRAFFIC CONTROL MANUAL TO FORM 4:1 WEDGE/FILLET IN THE AREA OF GRADE DIFFERENTIAL FROM BASE COURSE TO PAVEMENT EDGE. THE WEDGE/FILLET MATERIAL SHALL BE GRADED AGGREGATE BASE COURSE, TYPE 'B' AND WILL BE PAID FOR UNDER ITEM 302007. THIS MATERIAL SHALL BE REMOVED AND REUSED, AS REQUIRED, FOR EXCAVATIONS ELSEWHERE ON THE PROJECT. ALL COSTS FOR GABC REMOVAL AND REUSE SHALL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC. MAINTAINING GRADED AGGREGATE BASE COURSE THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY ACCESS, RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC. EXCESS GRADED AGGREGATE SHALL BE USED IN THE NEXT SEGMENT OF CONSTRUCTION.

10) THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER. THE COST OF ALL TEMPORARY ROADS, DETOURS AND PAVEMENT WIDENING SHALL BE PAID UNDER THE RESPECTIVE BID ITEMS AND NOT UNDER "HOT-MIX TRM" ITEM. THE USE OF ITEM 402000 SHALL BE USED ONLY AS DIRECTED BY THE ENGINEER OR AS INDICATED ON PLANS.

11) THE CONTRACTOR SHALL SUPPLY MESSAGE BOARDS UNDER ITEM 743514 - FURNISH AND MAINTAIN MESSAGE BOARD. MOVING THE MESSAGE BOARDS TO DIFFERENT LOCATIONS DURING CONSTRUCTION WILL BE INCIDENTAL TO ITEM 743514. AT A MINIMUM, MESSAGE BOARDS SHALL BE POSTED TWO WEEKS PRIOR TO THE START OF CONSTRUCTION AND CHANGES IN TRAFFIC PATTERNS. SIX PLASTIC DRUMS SHALL BE PLACED IN FRONT OF THE MESSAGE BOARD WITH ONE TYPE B WARNING LIGHT PLACED ON THE FIRST TWO DRUMS.

12) A TRUCK MOUNTED ATTENUATOR, TYPE II- ITEM 743537 SHALL ALSO BE REQUIRED WHEN TRAFFIC IS PRESENT DURING THE FOLLOWING OPERATIONS:  
-TEMPORARY/PERMANENT PAVEMENT MARKING;  
-PATCHING;  
-MILLING OPERATION;  
-PAVING;  
-FOR OTHER OPERATIONS AS DIRECTED BY THE ENGINEER.

13) UNLESS OTHERWISE NOTED ON PLANS, THE COST OF ANY FLOODLIGHTING NECESSARY DUE TO WORK OCCURRING AFTER DARK WILL BE PAID FOR UNDER ITEM 746591- FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY.

14) WHERE TYPICAL TRAFFIC CONTROL CASES FROM DELDOT'S TRAFFIC CONTROL MANUAL ARE USED, THE CONTRACTOR SHALL REVIEW THE REQUIRED SIGNING AND TRAFFIC CONTROL DEVICES WITH THE ENGINEER TO INSURE THEIR APPLICABILITY PRIOR TO IMPLEMENTATION. LONGITUDINAL DIMENSIONS FOR PLACEMENT OF PERMANENT OR TEMPORARY WARNING SIGNS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. ALL PERMANENT SIGNING SHALL BE 7' HIGH AND ALL TEMPORARY SIGNING SHALL BE 5' HIGH.

15) ALL PORTABLE PCC BARRIER SHALL BE PAINTED WHITE BEFORE INSTALLATION. TWO TYPE 'B' FLASHING LIGHTS SHALL BE INSTALLED AT THE LEAD END, AND ONE AMBER TYPE 'A' LIGHT SHALL BE INSTALLED AT THE TRAILING END. REFLECTOR PANELS SHALL BE PLACED ON TOP OF THE BARRIER AT 50' SPACING.

CONSTRUCTION PHASING,  
MOT AND EROSION CONTROL

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
20-007-02	NEW CASTLE	SEE TITLE SHEET	82	151
SR 41 (LANCASTER PIKE) SAFETY PROJECT				
REVISIONS				

16) ROADWAY AND SHOULDER WORK SHALL BE PERFORMED IN A MANNER SUCH THAT POSITIVE DRAINAGE OF THE ROADWAY SURFACE IS MAINTAINED THROUGHOUT CONSTRUCTION. ALL WORK AND MATERIALS TO PROVIDE AND MAINTAIN THIS DRAINAGE SHALL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC.

17) THE DEPARTMENT WILL NOT MAKE PAYMENT TO THE CONTRACTOR FOR ANY AND ALL TRAFFIC CONTROL DEVICES WHICH ARE IN PLACE AND/OR REQUIRED DURING THE FOLLOWING PERIODS:  
  
A) PERIODS WHEN THE CONTRACTOR CAN PURSUE WORK, BUT CHOOSES NOT TO. THIS INCLUDES WEEKENDS WITHIN AND CONTIGUOUS TO THE PERIOD FOR WHICH THE CONTRACTOR CHOOSES NOT TO PURSUE WORK.  
  
B) PERIODS WHICH THE CONTRACTOR PURSUES WORK, BUT WHICH ARE OUTSIDE OF THE APPROVED CONTRACT TIME (ALLOCATED WORKING/CALENDAR DAYS AND JUSTIFIABLE EXTENSIONS).

18) CONSTRUCTION OF ANY PROPOSED DRAINAGE, TEMPORARY DRAINAGE OR INSTALLATION OF EROSION CONTROL MEASURES SHALL START AT THE OUTFALL AND PROGRESS UPSTREAM FOR ALL CONSTRUCTION PHASES UNLESS OTHERWISE INDICATED ON PLANS.

19) ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THIS CONTRACT. ANY TEMPORARY CLOSURE OF A DRIVEWAY FOR TIE-IN PURPOSES SHALL BE COORDINATED WITH THE ENGINEER AND/OR PROPERTY OWNER IN ADVANCE OF CLOSURE. ALL WORK AND MATERIALS TO PROVIDE AND MAINTAIN THIS ACCESS SHALL BE INCIDENTAL TO ITEM 763500 - MAINTENANCE OF TRAFFIC. RAILROAD ACCESS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONTRACT. ALL WORK AND MATERIALS TO PROVIDE AND MAINTAIN ACCESS SHALL BE INCIDENTAL TO ITEM 763502 - MAINTENANCE OF RAILROAD TRAFFIC.

20) ENTRANCE AND SIDE ROAD TIE-IN AREAS SHALL BE CONSTRUCTED ONLY TO THE EXTENT THAT CAN BE PAVED OR TEMPORARILY STABILIZED WITH GRADED AGGREGATE BASE AT THE END OF A WORK DAY.

21) THE CONTRACTOR SHALL PLACE A WEDGE OF HOT-MIX AT 20:1 AROUND CONSTRUCTED DRAINAGE INLETS PRIOR TO PLACEMENT OF FINAL HOT-MIX TYPE C PAVING. THE CONTRACTOR SHALL NOTCH DRAINAGE INLETS TO MAINTAIN POSITIVE DRAINAGE CONDITIONS ALONG THE ROADWAY PRIOR TO PLACEMENT OF TYPE C FINAL HOT-MIX PAVING. NOTCHES SHALL BE REPAIRED TO PROPER CONDITION PRIOR TO OVERLAY. COST OF THIS WORK SHALL BE INCIDENTAL TO ITEM 710001- ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET

22) AN ATSSA CERTIFIED TRAFFIC CONTROL SUPERVISOR SHALL BE ASSIGNED TO THIS PROJECT IN ACCORDANCE WITH ITEM 763500 - MAINTENANCE OF TRAFFIC. THIS PERSON SHALL NOT BE THE FOREMAN FOR THE CONTRACT.

23) ALL PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT WHEN INSTALLED ON EXISTING OR TEMPORARY PAVEMENT, OR WHEN INSTALLED ON NEW PAVEMENT FOR TEMPORARY TRAFFIC PATTERNS, UNLESS OTHERWISE INDICATED ON PLANS OR DIRECTED BY THE ENGINEER. TEMPORARY STRIPING SHALL NOT BE INSTALLED ON THE FINAL SURFACE COURSE OF NEW PAVEMENT UNLESS IT IS REMOVABLE TAPE MATERIAL. WHERE PAVEMENT MARKINGS ARE NOT INDICATED ON THE PLANS, THE PAVEMENT MARKINGS FROM THE PREVIOUS STAGE ARE TO BE MAINTAINED OR THE FINAL PROPOSED PERMANENT MARKINGS ARE TO BE INSTALLED AND MAINTAINED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

24) TEMPORARY WARNING SIGN ASSEMBLIES CONTAINING MORE THAN ONE TRAFFIC CONTROL SIGN PER SIGN POST SHALL HAVE THE POST(S) EMBEDDED INTO THE GROUND, AND SHALL COMPLY WITH NCHRP-350 REGULATIONS.